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#### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: G06F 17/30, 9/46

(11) International Publication Number: A3

WO 99/57620

(43) International Publication Date: 11 November 1999 (11.11.99)

(21) International Application Number:

PCT/FI99/00374

(22) International Filing Date:

4 May 1999 (04.05.99)

(30) Priority Data:

980985

4 May 1998 (04.05.98)

FI

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(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

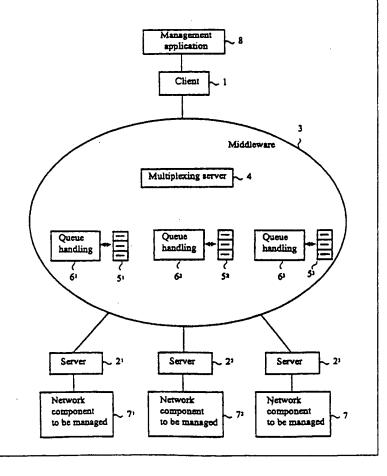
(88) Date of publication of the international search report:

13 January 2000 (13.01.00)

### (54) Title: DISTRIBUTION OF A SERVICE REQUEST IN A CLIENT-SERVER ARCHITECTURE

#### (57) Abstract

The present invention relates to a system and a procedure for distribution of a service request in a computer system based on a client-server architecture and comprising at least one client (1), which sends service requests to servers (21, 22, ..., 2n); one or more servers (2<sup>1</sup>, 2<sup>2</sup>, ..., 2<sup>n</sup>), which provide callable services for the client (1); and middleware means (3). According to the invention, the system comprises a multiplexing server (4), by means of which the client's (1) service request is copied and distributed to the servers  $(2^1, 2^2, ..., 2^n)$  for parallel execution; a queue system  $(5^1, 5^2, ..., 5^n)$  for storing service requests not yet executed; and queue handling means (61, 62, ..., 6n), by means of which the service requests placed in the queue system (51, 52, ..., 5n) are passed on for re-execution. The invention allows transparent distribution of the service request, guarantees improved reliability of operation in failure situations and consistency of resources.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 99/00374

## A. CLASSIFICATION OF SUBJECT MATTER IPC6: G06F 17/30, G06F 9/46 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC6: G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE, DK, FI, NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* Computer, Volume 28, No 4, April 1995, R.M. Adler, 1-4,7-11,14 Υ "Distributed Coordination Models for Client/Server Computing" page 16, column 1, line 5 - line 17 5-6,12-13 see whole document A 1-4,7-11,14 Υ Parallel and Distributed Systems 1996, Proceedings., 1996 Inter.., Volume, June 1996, S. Majumdar et al, "Performance of scheduling strategies for client-server systems" page 448. column 2, line 4 - line 8 page 448, column 2, line 4 - line 8; page 450, 5-6,12-13 column 1, line 1 - line 47 Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or priority date and not in conflict with the application but cited to understand **--1**... Special categories of cited documents: "A" document defining the general state of the art which is not considered the principle or theory underlying the invention to be of particular relevance "X" document of particular relevance: the claimed invention cannot be erlier document but published on or after the international filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other document of particular relevance: the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other means heing obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 15-11-1999 <u> 3 November 1999</u> Name and mailing address of the ISA/ Authorized officer Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Oskar Pihlgren/MN

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# INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 99/00374

C (Continu	ration). DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/FI 99/	
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

28/09/99

International application No.

PCT/FI 99/00374

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